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IN REPLY REFER TO
OPNAVINST 3501.347
N931

FEB 03 2005

OPNAV INSTRUCTION 3501.347

From: Chief of Naval Operations

Subj: PROJECTED OPERATIONAL ENVIRONMENT (POE) AND REQUIRED
OPERATIONAL CAPABILITY (ROC) FOR THE NAVY FORWARD
DEPLOYABLE PREVENTIVE MEDICINE UNIT (FDPMU)

Ref: (a) OPNAVINST 3501.2J

- Encl: (1) Projected Operational Environment (POE) for
Navy Forward Deployable Preventive Medicine
Units (FDPMU)
(2) Required Operational Capabilities (ROC) for Navy
Forward Deployable Preventive Medicine Units
(FDPMU)

1. **Purpose.** To issue the Projected Operational Environment and the Required Operational Capabilities for the Navy FDPMU.

2. **Discussion.** Enclosures (1) and (2) provide the necessary details to describe the mission areas and operational capabilities for which the Navy FDPMU was designed and organized as required by reference (a). This instruction provided resource agencies with the information they need concerning the Navy FDPMU mission requirements, capabilities, and the types and locations of expected operations.

3. **Action.** Fleet Commanders and the Bureau of Medicine and Surgery (BUMED) shall periodically review enclosures (1) and (2) and recommend changes to the Chief of Naval Operations (N931) when capability of the Navy FDPMU is significantly altered. Change recommendations should include comments on the expected Fleet Manpower Document (FMD) impact.

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**PROJECTED OPERATIONAL ENVIRONMENT (POE)
FOR
NAVY FORWARD DEPLOYABLE PREVENTIVE
MEDICINE UNITS (FDPMU)**

1. The primary mission of the FDPMU is to provide Force Health Protection by rapidly assessing, preventing, and controlling health threats in a theater of operations, enhancing organic Preventive Medicine assets. FDPMU capabilities include identifying and evaluating environmental health hazards (including chemical, biological, radiological, and physical agents), assessing the risk of adverse health outcomes, monitoring the health of deployed forces, and advising the operational commander concerning significant risks and recommending preventive medicine interventions. The FDPMU provides flexible and sustainable force health protection services to forward deployed elements in support of the Joint Task Force (JTF) Commander. The FDPMU provides Task Force Commanders with specialized preventive medicine support with rapidly deployable, portable, state-of-the-art detection/diagnostic equipment and real time analytical capabilities. It provides the flexibility to be task organized to meet any contingency from small-scale humanitarian support to major theater war, and can be adapted to operate from land bases or mobile platforms to large deck amphibious ships or aircraft carriers.
2. The most demanding operating environment anticipated for the FDPMU is a large geographic Area of Responsibility (AOR) with multiple sites requiring support. Readily available transportation is required throughout the AOR to conduct the timely health risk assessments necessary at all sites to ensure accurate and comprehensive information is provided to the JTF Commander. Restricted freedom of movement within theater will limit the ability of the FDPMU to complete rapid assessments or meet support requirements within the theater of operations.
3. The FDPMU is capable of deploying within 96 hours of BUMED tasking. Assuming equipment and personnel are assembled on site, the FDPMU will have full laboratory capabilities within 12 hours. As a task force component, the FDPMU is dependent on the Task Force Commander for site preparation and other Base Operating Support (BOS) services. The standard FDPMU configuration requires a maximum work area footprint of 7,500 square feet of level ground for administrative and technical support facilities. This footprint is scalable. If the FDPMU is deployed in modules,

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less than 7,500 square feet may be adequate. FDPMU personnel are trained to handle, process and analyze biological and chemical warfare agents and toxic industrial chemicals that are capable of creating environments that are immediately dangerous to life and health. Due to the potential for environmental contamination during specimen processing, the FDPMU should be placed down wind from adjacent facilities, equipment, and personnel. BOS requirements include supply operations, billeting and messing, medical/dental, equipment transportation, Petroleum, Oil, and Lubricants (POL), electronic (signal) and voice communications links, operation of utilities, medical and non-medical waste disposal, site preparation, maintenance of real property and material, minor construction, other engineering support, administrative support and services (including automated data processing support, fiscal/financial) rendered by or through activities of the supporting installation, and security.

4. A secondary mission of the FDPMU is to support other U.S. government agencies involved in consequence management, disaster or humanitarian relief, or peacekeeping efforts. Staffing and logistic support packages can be tailored to specific missions without additional lead-time.

5. **Readiness State Thresholds**

a. During readiness states I, II, and III, the FDPMU can be expected to provide specialized preventive medicine support to include:

(1) Advice to the operational commander of significant health risks to the deployed force and the recommended interventions needed to prevent exposure and protect the health of the force.

(2) Rapid detection and identification of chemical warfare agents and toxic industrial chemicals in soil, water, and air samples, and clinical specimens.

(3) Rapid detection and identification of radiological sources in soil, water, and air samples, and clinical specimens.

(4) Health risk assessment by collection and evaluation of medical and environmental information from local and regional sources to determine potential health threats to deployed personnel, and provide recommendations to eliminate or mitigate the health threat.

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(5) Diagnosis of infectious diseases or other pathogenic agents, and performance of antibiotic susceptibility testing in environmental and clinical specimens.

(6) Detection, identification, and analysis of biological warfare agents on the Defense Intelligence Agency's Validated Biological Threat list in environmental and clinical specimens.

(7) Detection, identification and evaluation of vector-borne disease threats, including surveillance and control of insects and animals that transmit diseases of military significance.

(8) Examination and analysis of intelligence reports, epidemiological surveys, results of disease surveillance, and/or information gained from civilian and private medical resources. Provide information that contributes to ongoing reevaluation and revision of preventive medicine strategies to control and mitigate health threats in the theater.

(9) Epidemiological surveillance of Disease/Non-Battle Injury (DNBI) data as reported by other units.

(10) Disease outbreak investigation and intervention.

(11) Sustained operations, deploying with 5 days sustenance and 30 days of supplies and special need items (dependent on required logistic support from the Task Force Commander). Resupply consists of 30-day consumable push-packs provided via the Time Phased Force Deployment Data (TPFDD) program for up to 120 days, or until the Single Integrated Medical Logistics Management (SIMLM) is functional.

b. Readiness State IV

(1) Deploy two FDPMUs within 96 hours of receipt of BUMED tasking, with a primary mission of providing Force Health Protection support to Task Force Commanders. The FDPMU can also participate in exercises to conduct intermediate and advanced training (simulating Readiness State I, II, and III scenarios) and systems evaluation with naval, joint, and/or combined units.

(2) Maintain equipment and systems, and execute the supply control management program.

(3) Deploy with 5 days sustenance and 30 days of supplies to provide specialized preventive medicine and health

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risk assessment support. Resupply consists of 30-day consumable push-packs provided via the TPFDD program for up to 120 days, or until SIMLM is functional. Connection with SIMLM is required as soon as possible.

(4) Review collection, identification, and diagnostic procedures, and ensure that all FDPMU procedures are effective and in a standardized up-to-date format.

(5) Ensure FDPMU personnel maintain proficiency in required FDPMU technologies.

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**REQUIRED OPERATIONAL CAPABILITIES (ROC)
FOR
NAVY FORWARD DEPLOYABLE PREVENTIVE MEDICINE UNITS
(FDPMU)**

1. The mission of the FDPMU is to provide flexible and sustainable force health protection support to component service or unified commanders. The FDPMU rapidly assesses and identifies health hazards, and then recommends protective or control measures to reduce the potential threat to deployed personnel. Rapidly deployable and mobile, it is staffed with highly trained health professionals and equipped with state-of-the-art analytical and diagnostic capabilities intended to meet the needs of evolving contingencies. The FDPMU provides specialized preventive medicine force health threat assessment capabilities not present in other organic preventive medicine assets. The FDPMU capabilities include laboratory analysis and rapid health hazard assessments of nuclear, biological and chemical threats, disease vectors, endemic diseases, and occupational and environmental health threats. The FDPMU can be scalable and task organized to meet any contingency from small-scale humanitarian support to major theater war, and can be adapted to operate from fixed or mobile land bases to ships. In order to support worldwide contingencies within 96 hours, the tiered readiness of 6 FDPMUs will ensure a minimum of 2 FDPMUs will be readily deployable. Within 21 days of notification, the second two FDPMUs will be deployable with the last two requiring 90 days. The operating profile consists of personnel mobilized primarily from the Navy Environmental and Preventive Medicine Units (NEPMUs) and the Navy Disease Vector Ecology and Control Centers (DVECCs), but can be augmented with additional radiological and biochemical expertise. The FDPMU is capable of deploying with 5 days sustenance and 30 days consumable supplies for sustaining laboratory and support operations. Follow-on 30 day push-packs of consumables are available for up to 120 days or until the Single Integrated Medical Logistics Management (SIMLM) is functional. The FDPMU requires Base Operating Support (BOS) for supply operations, billeting and messing, medical/dental, equipment transportation, Petroleum, Oil, and Lubricants (POL), electronic (signal) and voice communications links, operation of utilities, medical and non-medical waste disposal, site preparation, maintenance of real property and material, minor construction, other engineering support, administrative support and services (including automated data

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processing support, fiscal/financial) rendered by or through activities of the supporting installation, and security.

The following primary and secondary mission areas are assigned:

FDPMU

CCC FSO MOB MOS NCO

S P S S S

2. ROCs are reported under readiness states having major significance in determining the unit's total manpower requirements. The following summarizes the readiness states applicable to the FDPMU:

Readiness States I: Full Readiness

This state supports war and operations executed at Defense Conditions (DEFCON) I. While in Readiness State I, the staff shall be capable of meeting the following criteria: perform force health threat assessments (to include chemical, biological, radiological, and environmental hazards), provide consultations and recommendations to eliminate or reduce health threats in support of Task Force (TF) operations. All positions will be manned to sustain operations at the maximum capability indefinitely once recall is complete.

Readiness States II: Tailored Contingency Readiness

Significant strategic and/or tactical indication of potential limited hostilities or regional localized civil assistance operations. As directed by higher authority, partial augmentation is achieved to sustain a readiness posture tailored to a limited threat. The FDPMU shall be capable of meeting the following criteria to a tailored response: perform force health threat assessments (to include chemical, biological, radiological, and environmental hazards), provide consultations and recommendations to eliminate or reduce health threats in support of Task Force (TF) operations.

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Readiness States III: Current Operations Readiness

Conduct current operations, vital positions are manned sufficient to sustain theater or local operations at DEFCON IV or III. In this readiness state, the FDPMU is task organized to meet the requirements of the requesting commander. The FDPMU may be deployed for up to 179-days to meet peacetime operations. The FDPMU shall be capable of meeting the following criteria: perform force health threat assessments (to include chemical, biological, radiological, and environmental hazards), provide consultations and recommendations to eliminate or reduce health threats in support of operations.

Readiness State IV: Training Readiness

FDPMU equipment will be in storage or undergoing required maintenance checks and refitting. Maintenance will be conducted on FDPMU modules by the responsible NEPMUs, DVECCs, and the Fleet Hospital Support Office (FHSO). Routine organizational maintenance of the FDPMU including testing of surveillance and collecting equipment, laboratory equipment, and vector control equipment will be performed by NEPMU, DVECC, and FHSO personnel. These units will train, maintain, and test the logistics, personnel, and systems related to transitioning FDPMUs from non-deployed to deployed status. Two FDPMUs will be able to complete the transition within 96 hours of activation. Two more FDPMUs will be deployable within 21 days, while the remaining FDPMUs will be deployable within 90 days. All assigned personnel shall maintain all requirements for mobilization (medical, legal, training, etc.). Two teams remain in C-1 status.

3. ROC symbols are used to specify the desired level of achievement of readiness or other work for, or during, a particular readiness condition. Readiness normally applies to watches and/or evolutions, while other work refers to non-watch activity such as performing maintenance.

CAPABILITIES

"F" = "Full" The capability is to be fully achieved. For operational functions (watches), this means that installed equipment or systems will be fully manned to designed capability. The achievement is to be sustained for the duration of the condition unless modified by an **"A"** or **"E"**.

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"L" = "Limited" The capability is to be only partially realized. Even though only limited capability is realized, it is to be sustained for the duration of the condition unless modified by an **"A"** or **"E"**. Every **"L"** must be supported by a limiting statement specifying the limitation.

MODIFIERS

"A" = "Augmentation" The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch personnel and is always associated with an **"F"** or **"L"**.

"E" = "Special Team" The capability is to be either fully or partially achieved for a limited time during the condition. This symbol is always associated with an **"F"** or **"L"** and denotes a capability that does not require continuous watch manning. Teams and details as set may either supplement or replace all or part of the existing watch organization.

MODIFIER	CAPABILITY	
	FULL	LIMITED
None	Indefinitely manned to design capacity	Indefinitely manned to less than designed Capacity
A	Temporarily manned to design capacity using off-watch personnel	Temporarily manned to less than design capacity using off-watch personnel
E	Temporarily manned to design capacity using a special team	Temporarily manned to less than design capacity using a special team

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COMMAND, CONTROL AND COMMUNICATIONS (CCC)

CCC 3 PROVIDE OWN UNIT'S COMMAND AND CONTROL FUNCTIONS

CCC 3.11 Establish voice communications with supported Forces. L

CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.

CCC 6.12 Maintain internal communications systems. L
(L) - Limited to FDPMU line of site and digital communications capabilities.

CCC 6.18 Provide secured line of sight communications. L
(L) - Limited to risk assessments within and immediately adjacent to potential contaminated areas.

CCC 6.19 Provide tactical secure voice or data communications. L
(L) - Limited to BOS communications link and FDPMU personnel only.

FLEET SUPPORT OPERATIONS (FSO)

FSO 2 PROVIDE BASE FACILITY MAINTENANCE AND UTILITY OPERATIONS.

FSO 2.1 Operate and maintain electric power generation systems and distribution systems. L
(L) - Capability is limited to emergency power prior to implementation of BOS support.

FSO 9 PROVIDE MEDICAL CARE TO ASSIGNED AND EMBARKED PERSONNEL.

FSO 9.5 Conduct sanitation and safety inspections. L
(L) - Limited to FDPMU personnel and spaces only.

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FSO 10 PROVIDE FIRST AID ASSISTANCE.

FSO 10.2 Train assigned and embarked personnel in first aid, self and buddy aid procedures. L
(L) - Limited to FDPMU personnel and spaces only.

FSO 15 PROVIDE FORCE HEALTH THREAT ASSESSMENTS AND PREVENTION FOR ASSIGNED AND EMBARKED PERSONNEL.

FSO 15.1 Conduct health and risk communication for health threats identified. F

FSO 15.2 Conduct health threat assessments for chemical and biological agents, radiological and environmental hazards, and toxic industrial chemicals, and detect and assess exposures during deployments. F

FSO 15.3 Conduct health threat assessments for habitability, food, water, and sanitation. F

FSO 15.4 Conduct assessments of occupational health/ Safety and preventive medicine programs. F

FSO 15.5 Conduct threat assessments for disease vectors. F

FSO 15.6 Conduct operations to prevent or reduce the threat of vector borne diseases. F

FSO 15.7 Conduct field detection, identification, and analysis of potential biological warfare agents and/or naturally occurring military relevant public health diseases. F

FSO 15.8 Provide for safe and appropriate medical waste collection. L
(L) - Limited to FDPMU operational requirements.

FSO 15.9 Provide organic motor transport to sites requiring support within theater. L
(L) - Limited to FDPMU personnel and assets.

FSO 15.10 Provide technical preventive medicine training to deployed medical personnel. F

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- MOB 12.17 Provide initial individual protective clothing and equipment to sufficiently protect personnel in case of CBRE contamination. L
(L) - Limited to FDPMU personnel.
- MOB 12.18 Provide initial antidotes and chemo-prophylaxis to staff which will counteract the effects caused by CBRE contaminated environments. L
(L) - Limited to FDPMU personnel.
- MOB 12.19 Monitor and/or maintain the environment to ensure the protection of personnel from overexposure to hazardous levels of ionizing radiation, temperature, noise, and toxic substances per current instructions. L
(L) - Limited to FDPMU spaces according to current doctrine and unit capability.
- MOB 14 CONDUCT OPERATIONS ASHORE**
- MOB 14.1 Operate in climate extremes ranging from cold weather to tropical to desert environments (-10° F to +125° F). L
(L) - Restricted to BOS support capabilities.
- MOB 14.5 Conduct peacetime activation, mount-out and movement exercises of selected personnel and equipment to ensure capabilities of contingencies involving naval forces short of a general war. F
- MOB 14.8 Provide full FDPMU laboratory capabilities within 12 hours of arrival of organic assets at designated set-up site using organic staff and table of equipment. L
(L) - Restricted by available BOS.
- MOB 14.9 Operate in rear of combat zones in Marine Expeditionary Force (MEF) Forward or Sea Basing environment. L
(L) - Limited to BOS provided and shipboard systems compatibility restrictions.
- MOB 14.10 Move 100 percent of FDPMU equipment using Organic motor transport assets. F

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MOB 14.11 Provide qualified medical personnel to conduct L
Environmental Health Site Assessments (EHSA).
(L) - Limited to operational restrictions.

MISSION OF STATE (MOS)

MOS 1 PERFORM NAVAL DIPLOMATIC PRESENCE OPERATIONS

MOS 1.2 Conduct force/unit tour for foreign dignitaries. L
(L) - Limited by tempo of operations.

MOS 1.8 Participate in military exercises with allied L
nations.
(L) - Limited by mission, staffing, logistics,
and availability.

MOS 1.9 Participate in military exercises with non-allied L
nations.
(L) - Limited by mission, staffing, logistics
availability.

MOS 1.12 Participate in military exercises with non- L
governmental organizations and private volunteer
organizations.
(L) - Limited by mission, staffing, logistics
availability.

MOS 2 PROVIDE HUMANITARIAN ASSISTANCE

MOS 2.16 Provide FDPMU capabilities as directed to support L
government agencies involved in disaster relief
operations.
(L) - Limited by mission, staffing, logistics
availability.

MOS 3 PROVIDE PEACEKEEPING

MOS 3.2 Provide logistics support for joint/allied L
peacekeeping forces.
(L) - Limited by mission, staffing, logistics
availability.

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NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.

NCO 3 PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.

(L) - Limited to non-common use FDPMU organic assets. Does not include common use equipment as demonstrated with motor transport, communications, and tentage.

(L) - Limited to FDPMU technical requirements only and restricted by non-deployment of biomedical repair technician and engineman.

(L) - Limited to FDPMU organic assets.

(L) - Limited to FDPMU spaces.

**NCO 8 SERVE AS A PLATFORM FOR OPERATIONAL TEST AND
EVALUATION OF SYSTEMS, EQUIPMENT, AND TACTICS**

(L) - Limited to those areas pertaining to FDPMU operations and support.

(L) - Limited to those areas pertaining to FDPMU operations and support.

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NCO 10 PROVIDE EMERGENCY/DISASTER ASSISTANCE

NCO 10.11 Provide FDPMU capabilities as directed to support government agencies involved in disaster relief operations. L
(L) - Limited by mission, staffing, logistics, and transportation availability.

NCO 21 FUNCTION AS MODEL MANAGER FOR USN PERSONNEL QUALIFICATION STANDARD (PQS) FOR OWN UNIT'S SPECIFIC WARFARE AND/OR SPECIALTY COMMUNITY L
(L) Limited to FDPMU.